

In this thesis at first we focus on theory of dealing with limited and censored explained variables. We begin with discrete variables and show the theory of binary variables. Later we explain utility of models logit and probit and demonstrate it at a practical example.

Third chapter deals with limited explained variables, specifically censored and variables representing some time to event. We show how to work with the most used parametric models and Kaplan-Meier estimator.

In the last chapter we describe some functions, which might be used to plot a graph of a survival function using softwares R or Mathematica. Some options in Excel are also mentioned, but they are very limited. Described functions are then demonstrated in use at a practical example with our gained data.